



SHUBHANSHU DWIVEDI

Village Matiyara Post Ratangawan Tehsil Mauganj Rewa Madhya Pradesh 486333
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Personal Details

- Date of Birth : 02/06/1999

Education

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| • SARASWATI SHISHU MANDIR HIGHER SECONDARY SCHOOL,MAUGANJ
HIGH SCHOOL CERTIFICATE
86.50 | 2014 |
| • Government Higher Secondary School,Farahda
HIGHER SECONDARY SCHOOL CERTIFICATE
84.20 | 2016 |
| • Government Engineering College, Rewa
Bachelor Of Engineering (Mechanical Engineering)
77.40 | 2020 |

INTERNSHIP

- **Metrology Intern [VOLVO EICHER POWERTRAIN, PITHAMPUR]**
 - Gained understanding of inventory control of measurement tools.
 - Acquired a knowledge of geometrical dimensions, surface roughness, tolerances and its measurement.
 - Learned the working of Co-ordinate Measuring Machine for inspection.
 - Came to know about the Quality Control and Machining operations in the plant.
 - Learned team co-ordination.
- **Maintenance Intern [INDIAN RAILWAYS, New Katni Junction]**
 - Gained knowledge of working of Diesel Locomotive.
 - Acquired an exposure of parts of diesel locomotives.
 - Learned the preventive scheduled, corrective and condition based maintenance for diesel locomotives
 - Learned the scheduling of maintenance process

Projects

- **Failure analysis of a half-shaft of a SAE-BAJA All Terrain Vehicle**
 - A fracture of half-shaft of a SAE-BAJA All Terrain Vehicle was analyzed.
 - Finite element model identified the failure region, in agreement with fractography.
 - A combination of fatigue and overload due to improper material lead to failure.

The fractured component was analyzed by means of metallographic, chemical and mechanical analysis, fractography and finite element analysis. After analysing we concluded that the use of a AISI/SAE 4140 steel instead of the specified AISI/SAE 4340 steel had a decisive influence on the premature failure of the half-shaft due to combination of torsional fatigue and overload.

ACCOMPLISHMENTS

- Attended workshop on automobile mechanics at IIT Delhi
- Attended workshop on structural analysis through FEM at Government Engineering College, Rewa
- Attended the workshop on Advance in Mechanical engineering at Government Engineering College Rewa
- Participated in SAE BAJA 2019

Achievements & Awards

- College Representative for Government Engineering College, Rewa at E-Cell IIT Bombay
- Campus Ambassador for Rendezvous IIT Delhi at Government Engineering College, Rewa
- Campus Ambassador for Techfest IIT Delhi at Government Engineering College, Rewa
- Founding member of SAEINDIA Collegiate Club, REC Rewa
- Vice Chairperson and Power Transmission Head at SAEINDIA Collegiate Club REC Rewa (2019-20)

Interests

- Manufacturing
- Quality and Control
- Metrology
- Energy Conversion
- Automobile

Skills

- MS Excel
- MS PowerPoint
- AutoCAD
- ANSYS(Static Structural Analysis)
- Team Management
- Leadership
- Good communication
- Metrology and Inspection
- Maintenance Management
- Power Technology

Strength

- 1. Eager to learn
- 2. Team player
- 3. Problem solving techniques

Hobbies

- Watching sports and movies over the weekend
- Writing hindi stories
- Playing cricket

Language

- HINDI
- English